

In re Patent Application of:
CHIU ET AL
Serial No. 10/797,869
Filed: MARCH 9, 2004

IN THE CLAIMS:

1. (previously presented) A fiber optic module comprising:

a nose receptacle engageable with a cage assembly;
a pull-actuator to disengage and withdraw the nose receptacle from the cage assembly including:
 a de-latch puller slideably coupled to the nose receptacle for pulling in a direction away from the cage assembly; and
 a latching actuator engaged with the de-latch puller for disengaging the nose receptacle from the cage assembly;
and
one or more electro-optic transducers to convert optical signals into electrical signals or electrical signals into optical signals.
2. (Original) The fiber optic module of claim 1 wherein the fiber optic module is a small form pluggable (SFP) fiber optic module and the cage assembly is a small form pluggable (SFP) cage assembly.
3. (Original) The fiber optic module of claim 1 wherein the pull-actuator is activated to disengage and withdraw the fiber optic module by a single backward pull action.
4. (previously presented) The fiber optic module of claim 1 wherein the de-latch puller includes one or more grooves to slideably engage the fiber optic module.

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5. (currently amended) The fiber optic module of claim 1,
wherein the fiber optic module includes one or more grooves to
slideably engage the de-latch puller.

6. (previously presented) The fiber optic module of claim 4,
wherein the nose receptacle includes rails on which the de-latch
puller slides to disengage the fiber optic module from the cage
assembly.

7. (previously presented) The fiber optic module of claim 1
wherein the de-latch puller includes, one or more end-stops to
withdraw the fiber optic module as the de-latch puller is pulled.

8. (previously presented) The fiber optic module of claim 1
wherein the de-latch puller includes one or more end-stops to
prevent the de-latch puller from becoming disengaged from the
fiber optic module as it is pulled.

9. (Cancelled)

10. (Original) The fiber optic module of claim 1 wherein the
pull-actuator includes an orientation indicator to indicate the
fiber optic module which the pull-actuator releases.

11. (Original) The fiber optic module of claim 1 wherein the
pull-actuator is formed of metal.

12. (Original) The fiber optic module of claim 1 wherein the
pull-actuator is formed of a plastic.

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13-23. (Cancelled)

24. (Original) The fiber optic module of claim 1 wherein the pull-actuator permits arranging multiple fiber optic modules in a belly-to-belly configuration without obstructing adjacent pull-actuators.

25. (Original) The fiber optic module of claim 24 wherein with the belly-to-belly configuration, two pull-actuators are located in proximity to each other along a common surface between two fiber optic modules.

26-49. (Cancelled)

50. (Canceled)

51. (Canceled)

52. (Canceled)

53. (Canceled)

54-55. (Cancelled)

56. (Canceled)

57. (Canceled)

58. (Canceled)

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59-70. (Cancelled)

71. (Canceled)

72. (Canceled)

73. (Canceled)

74. (Canceled)

75. (previously presented) The fiber optic module of claim 1 wherein the de-latch puller is a pull button.

76. (previously presented) The fiber optic module of claim 1 wherein the de-latch puller is a pull knob.

77. (previously presented) The fiber optic module of claim 1 wherein the de-latch puller is a pull hook.

78. (previously presented) The fiber optic module of claim 1 wherein the de-latch puller is a pull ring.

79. (previously presented) The fiber optic module of claim 1 wherein the de-latch puller is a pull square.

80. (previously presented) The fiber optic module of claim 1 wherein the de-latch puller is a pull mechanism.

81. (previously presented) The fiber optic module according to claim 1, wherein the de-latch puller includes a catch; and wherein the latching actuator includes a ramped sliding surface

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at a first end for coupling with the catch, whereby pulling of the de-latch puller causes the latching actuator to rotate.

82. (previously presented) The fiber optic module according to claim 81, wherein the latching actuator includes a latch on a second end thereof for engaging an opening in the cage assembly.

83. (previously presented) The fiber optic module according to claim 82, wherein the catch includes a latching surface with a rounded edge, whereby when the de-latch puller is pulled, the rounded edge of the latching surface moves against the ramped sliding surface causing the latching actuator to rotate and the latch to disengage from the opening in the cage assembly.

84. (previously presented) The fiber optic module according to claim 81, further comprising spring means for maintaining the latching actuator engaged with the cage assembly.